

Post-it brand

Fax Transmittal Memo 7672

To	Brian Mitchell	No. of Pages	7	Today	10/8/92	Time	8:00 AM
Company	USEPA Region VII	From	Brian J. Yeich	Company	United Technologies Corp.	Location	
Location		Location		Dept. Charge		Fax #	
Fax #		Telephone #		Original Disposition:	<input type="checkbox"/> Destroy	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Call for pickup
Comments	<p>Some information which you may not have. This was put together by Schlegel's consultant and submitted (at least) to the IDNR. This information is pertinent to Draft comment #4 of your draft letter. The wells are adjacent to two of three spill areas.</p>						

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OCT 08 1992

**SITE CHARACTERIZATION REPORT
 SCHLEGEL-KEOKUK FACILITY
 KEOKUK, IOWA**

IOWA SECTION

Prepared for:

SCHLEGEL CORPORATION
 Rochester, New York

Prepared by:

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
 St. Louis, Missouri

ESE 590-1143-1000

August 17, 1992



R00110791

RCRA RECORDS CENTER



**Environmental
 Science &
 Engineering, Inc.**



Engineering

3.3 MONITORING WELL INSTALLATION

Borings P-9, P-10, and P-12 were converted into monitoring wells OP-1, OP-2, and OP-3, respectively. The wells were constructed of threaded 2-inch PVC with 10 feet of 0.01-inch slotted screen with 2-inch blank PVC riser. A uniform, rounded sandpack was placed from the bottom of each well to 2 feet above the screen. A 2-foot thick layer of bentonite was placed above the sandpack and hydrated. The boring was grouted to the surface and aboveground, locking protective well casings were installed. A summary of well construction details is provided in Table 3-1. A typical monitoring well construction diagram is presented in Figure 3-2.

Immediately following installation, the wells were developed by bailing with a Teflon bailer for a minimum of five casing volumes until the wells were dry or free of suspended solids.

On May 27, 1992, the location and elevation of each monitoring well was surveyed by ESE and the depth to water and total depth of each well was measured. The wells were then purged with a Teflon bailer for a minimum of three casing volumes. The wells were allowed to equilibrate to 90 percent of their pre-purging level prior to the collection of groundwater samples. The groundwater samples were collected using a Teflon bailer and placed into laboratory supplied glass containers. The samples were labelled and placed immediately on ice for shipment to the ESE St. Louis Analytical Laboratory. Well development and sampling field notes and chain-of-custody forms are included in Appendices C and D, respectively.

Well development and sampling equipment were decontaminated before each use by washing in a Liquinox soap solution and triple rinsing with deionized water. Well development and purge water was containerized for disposal following receipt of laboratory analysis.

3.4 LABORATORY ANALYSIS

Soil samples collected for laboratory analysis were analyzed for extractable petroleum products and related low volatility organic compounds utilizing Iowa Method OA-2. Groundwater samples collected were analyzed for benzene, toluene, ethylbenzene, and

Table 3-1. Summary of Monitoring Well Construction Details

Well Identification	Boring	Total Depth (ft)	Length of Screen (ft)	Top of Casing Elevation
OP-1	P-9	18	10	643.07
OP-2	P-10	20	10	640.65
OP-3	P-12	20	10	643.09

Note: Elevations are in feet above mean sea level.

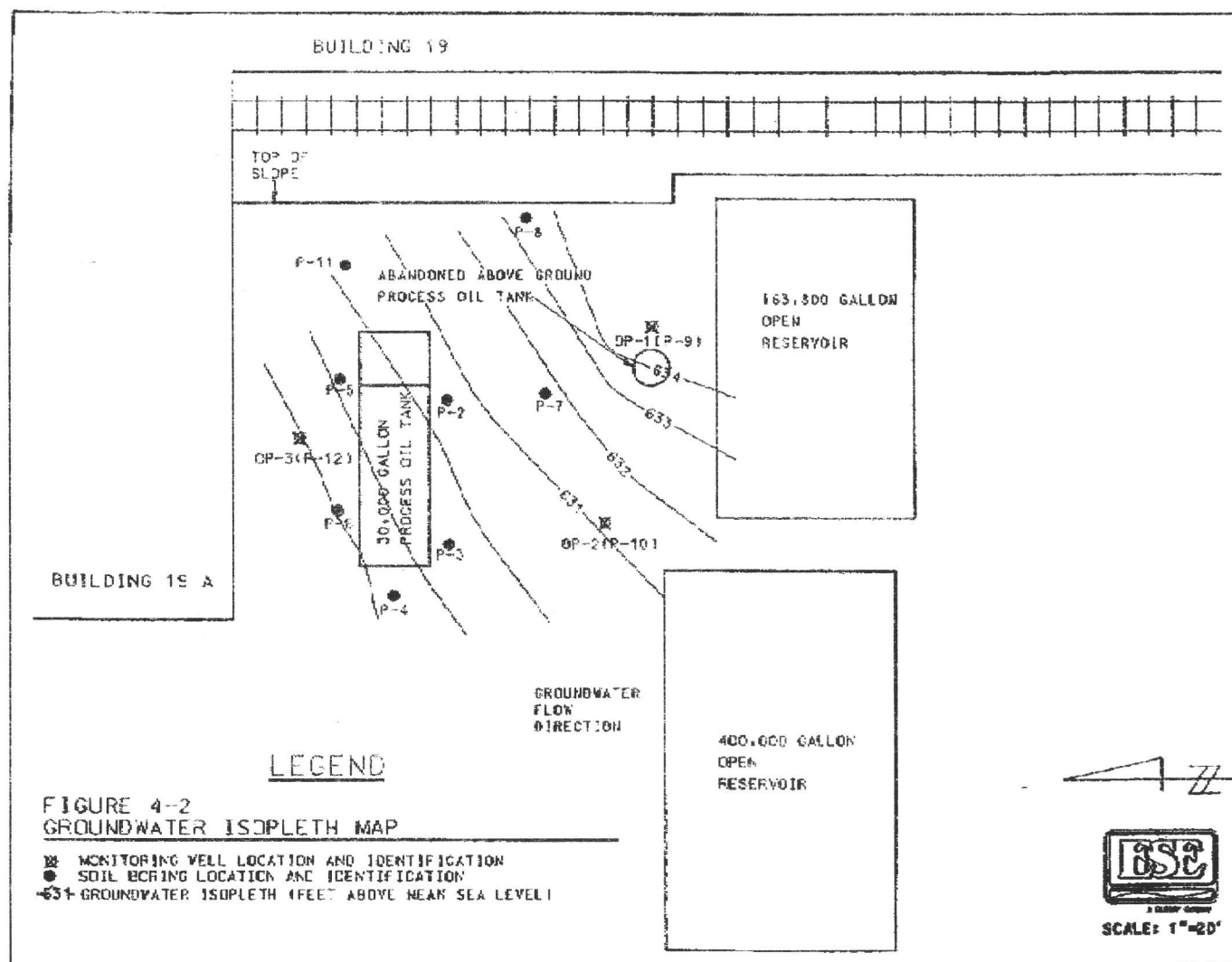
Source: BSE, 1992.

Table 4-2. Groundwater Levels and Elevations Measured on May 27, 1992

Well Identification	Top of Casing Elevation	Depth to Groundwater (ft)	Groundwater Elevation
OP-1	643.07	6.95	636.12
OP-2	640.65	8.57	632.08
OP-3	643.09	14.20	628.89

Note: Elevations are in feet above mean sea level.

Source: ESE, 1992.





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Analytical Chemistry Results

STATUS: FINAL

PAGE# 1

PROJECT NAME: SCHLEGEL-KEOKUK
PROJECT NUMBER: 5922012-0100
SAMPLE MATRIX: WATER
PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 07-02-92
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.

LAB I.D.

COLLECTION DATE

RECEIVED DATE

OP-1	OP-2	OP-3	DATE	DATE
SCHLEG5*1	SCHLEG5*2	SCHLEG5*3	EXTRACTED	ANALYZED ANALYS
05/27/92	05/27/92	05/27/92		
05/27/92	05/27/92	05/27/92		

PARAMETER	METHOD	UNITS							
POLYNUCLEAR AROMATIC HYDROCARBONS									
ACENAPHTHENE	3510/8270	UG/L	<3.9	<4.2	<4.3	06-09-92	06-26-92	REL	
ACENAPHTHYLENE	3510/8270	UG/L	<4.5	<4.8	<5.0	06-09-92	06-26-92	REL	
ANTHRACENE	3510/8270	UG/L	<4.6	<5.0	<5.1	06-09-92	06-26-92	REL	
BENZO(A)ANTHRACENE	3510/8270	UG/L	<3.6	<3.8	<3.9	06-09-92	06-26-92	REL	
BENZO(A)PYRENE	3510/8270	UG/L	<2.9	<3.1	<3.1	06-09-92	06-26-92	REL	
BENZO(B)FLUORANTHENE	3510/8270	UG/L	<1.4	<1.5	<1.6	06-09-92	06-26-92	REL	
BENZO(GHI)PERYLENE	3510/8270	UG/L	<3.4	<3.7	<3.8	06-09-92	06-26-92	REL	
BENZO(K)FLUORANTHENE	3510/8270	UG/L	<4.5	<4.8	<5.0	06-09-92	06-26-92	REL	
CHRYSENE	3510/8270	UG/L	<1.7	<1.9	<1.9	06-09-92	06-26-92	REL	
DIBENZO(A,H)ANTHRACENE	3510/8270	UG/L	<3.3	<3.5	<3.6	06-09-92	06-26-92	REL	
FLUORANTHENE	3510/8270	UG/L	<2.4	<2.6	<2.6	06-09-92	06-26-92	REL	
FLUORENE	3510/8270	UG/L	<5.9	<6.3	<6.5	06-09-92	06-26-92	REL	
INDENO(1,2,3-CD)PYRENE	3510/8270	UG/L	<3.5	<3.7	<3.8	06-09-92	06-26-92	REL	
NAPHTHALENE	3510/8270	UG/L	<3.3	<3.5	<3.6	06-09-92	06-26-92	REL	
PHENANTHRENE	3510/8270	UG/L	<4.0	<4.3	<4.4	06-09-92	06-26-92	REL	
PYRENE	3510/8270	UG/L	<1.2	<1.2	<1.3	06-09-92	06-26-92	REL	
VOLATILE PETROLEUM COMPOUNDS (BT(E)I)									
BENZENE	5030/8020	UG/L	<0.11	0.30	<0.11	06-02-92	SJM		
ETHYLBENZENE	5030/8020	UG/L	<0.16	0.24	<0.16	06-02-92	SJM		
M/P-KYLENES	5030/8020	UG/L	<0.13	0.97	0.45	06-02-92	SJM		

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St. Louis Chemistry Laboratory

Analytical Chemistry Results

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STATUS: FINAL

PAGE# 2

PROJECT NAME: SCHLEGEL-KBOKUK
PROJECT NUMBER: 5922012-0100
SAMPLE MATRIX: WATER
PROJECT MANAGER: JOHN F. GEMOULES

REPORT DATE: 07-02-92
LAB MANAGER/QC REVIEW: JEFFREY W. SIRIA
REPORT APPROVED BY: FRANCIS Y. HUANG

SAMPLE I.D.	OP-1	OP-2	OP-3	DATE	DATE
LAB I.D.	SCHLEG5*1	SCHLEG5*2	SCHLEG5*3	EXTRACTED	ANALYZED ANALY:
COLLECTION DATE	05/27/92	05/27/92	05/27/92		
RECEIVED DATE	05/27/92	05/27/92	05/27/92		
PARAMETER	METHOD	UNITS			
O-XYLENE	5030/8020	UG/L	<0.12	0.37	0.15
TOLUENE	5030/8020	UG/L	<0.17	0.29	0.35
					06-02-92 SJM
					06-02-92 SJM

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